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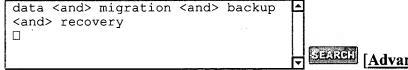
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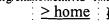


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ARIES/CSA: a method for database recovery in client-server architectures > Also published in ...

Authors

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SIGACT: ACM Special Interest Group on Algorithms and Computation Theory

SIGART: ACM Special Interest Group on Artificial Intelligence SIGMOD: ACM Special Interest Group on Management of Data

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↑ ABSTRACT

This paper presents an algorithm, called ARIES/CSA (Algorithm for Recovery and Isolation Exploiting Semantics for Client-Server Architectures), for performing recovery correctly in client-server (CS) architectures. In CS, the server manages the disk version of the database. The clients, after obtaining database pages from the server, cache them in their buffer pools. Clients perform their updates on the cached pages and produce log records. The log records are buffered locally in virtual storage and later sent to the single log at the server. ARIES/CSA supports a write-ahead logging (WAL), fine-granularity (e.g., record) locking, partial rollbacks and flexible buffer management policies like steal and no-force. It

↑ INDEX TERMS

Primary Classification:

H. Information Systems

→ H.2 DATABASE MANAGEMENT

← H.2.2 Physical Design

Subjects: Recovery and restart

Additional Classification:

H. Information Systems

→ H.2 DATABASE MANAGEMENT

→ H.2.4 Systems

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→ H.2.7 Database Administration

Subjects: Logging and recovery

General Terms:

Algorithms, Design, Performance

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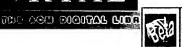
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